

I claim:

1. A liquid cooler comprising:

a housing;

5 at least two heatsinks attached with said housing, said each of said heatsinks having a top wall with an inwardly facing wall, a bottom wall with an inner surface formed to surround and contact a portion of an outer surface of a container, interior sidewalls and an interior lower wall, said inwardly facing wall, said interior sidewalls, and said interior lower wall defining a cavity, wherein said interior lower wall of said cavity includes at least one heat fin;

10 an outer covering, wherein said outer covering surrounds said heatsinks; and

15 rotating means connected with said housing for rotating said heatsinks and said outer covering.

2. The liquid cooler of claim 1, wherein said heatsink further comprises a conductive material.

3. The liquid cooler of claim 2, wherein said conductive material further comprises aluminum.

4. The liquid cooler of claim 1, wherein said heatsink further comprises a plastic material.

20 5. The liquid cooler of claim 1 further comprising a clearance defined by a separation between said heatsinks when said heatsinks are oriented to receive a container, and wherein said heatsinks do not come into contact.

6. The liquid cooler of claim 1 further comprising a cooling liquid within said cavity.

25 7. The liquid cooler of claim 6, wherein said cooling liquid comprises a gel.

8. The liquid cooler of claim 6, wherein said cooling liquid comprises ice.

30 9. The liquid cooler of claim 6, wherein said heatsink further comprises front wall, said front wall being a flexible membrane.

10. The liquid cooler of claim 9, wherein said flexible membrane comprises a latex material.

11. The liquid cooler of claim 6, wherein said top wall of said heatsink is removable from said heatsink.

5 12. The liquid cooler of claim 1, wherein said heatsink comprises a pressure relief valve.

13. The liquid cooler of claim 1 further comprising an ejecting member attached with said housing.

14. The liquid cooler of claim 1, wherein said outer covering is insulated.

15. A liquid cooler comprising:
a housing;
a block attached with said housing, said block having an inner surface;
a space defined by said inner surface of said block;
rotating means connected with said housing for rotating said block;
whereby said block is configured such that said space is able to receive a container.

20 16. The liquid cooler of claim 15, wherein said block further comprises a conductive material.

17. The liquid cooler of claim 16, wherein said conductive material is further comprised of aluminum.

18. The liquid cooler of claim 15, wherein said block further comprises a plastic material.

25 19. The liquid cooler of claim 15, wherein said block further comprises an interior upper wall, interior sidewalls, and an interior lower wall, and wherein said inner surface further comprises an inside wall, said interior upper wall, said interior sidewalls, said interior lower wall, and said inside wall defining a cavity.

30 20. The liquid cooler of claim 19, wherein said inside wall of said cavity further comprises at least one heat fin.

21. The liquid cooler of claim 19 further comprising a cooling liquid within said cavity.

22. The liquid cooler of claim 21, wherein said inner surface comprises a flexible membrane.

5 23. The liquid cooler of claim 22, wherein said flexible membrane comprises a latex material.

24. The liquid cooler of claim 21, wherein said block further comprises a top wall that is removable from said block.

10 25. The liquid cooler of claim 15, wherein said block comprises a pressure relief valve.

26. The liquid cooler of claim 15 further comprising an ejecting member attached with said housing.

15 27. A liquid cooler comprising:
a housing;
at least one heatsink attached with said housing, said heatsink including a flexible membrane formed to surround and contact a portion of an outer surface of a container, and interior sidewalls, said membrane and said interior sidewalls defining a cavity;

20 a cooling substance contained in said cavity;
an outer covering, wherein said outer covering surrounds said heatsink; and

25 rotating means connected with said housing for rotating said heatsink and said outer covering.

28. The liquid cooler of claim 27, wherein said flexible membrane comprises a latex material.

29. The liquid cooler of claim 27, wherein said flexible membrane comprises a urethane material.

30 30. The liquid cooler of claim 27, wherein said heatsink further comprises a conductive material.

31. The liquid cooler of claim 30, wherein said conductive material further comprises aluminum.

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32. A refrigerator-freezer comprising:

a freezer door including a liquid cooler for cooling a container, said liquid cooler having a housing, at least one heatsink attached with said housing, said heatsink having a top wall with an inwardly facing wall, a bottom wall with an inner surface formed to surround and contact a portion of an outer surface of said container, interior sidewalls and an interior lower wall, said inwardly facing wall, said interior sidewalls, and said interior lower wall defining a cavity, wherein said interior lower wall of said cavity includes at least one heat fin, said liquid container further including an outer covering attached with said housing that surrounds said heatsink, a pushbutton for rotating said heatsink and said outer covering, and an ejector button for removing said container from said heatsink.

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depressing said ejector member after said container is cool but before removing said container from said container receiver.

40. The method of claim 38 further comprising:
rotating said container receiver manually.

5 41. The method of claim 38 further comprising:
rotating said container receiver electrically.

42. The method of claim 38 further comprising:
rotating said container using battery power.

10 43. The method of claim 42, wherein rotating said container using battery power further comprises depressing a pushbutton to rotate said container.

44. The method of claim 42, wherein rotating said container using battery power further comprises plugging said liquid cooler into a battery source.

15 45. The method of claim 44, wherein said battery source is a cigarette lighter in an automobile.

46. The method of claim 38 further comprising:
cooling said heatsink by placing said heatsink in a freezer.

47. The method of claim 38, wherein said heatsink has an interior cavity with a removable top surface.

20 48. The method of claim 47, further comprising:
removing said top surface of said heatsink; and
filling said cavity with a cooling substance.

49. A method of promoting the sale of liquid coolers comprising:
distributing at least one liquid cooler having a container receiver;
incorporating said liquid cooler into a device;

25 placing a container into said container receiver;
rotating said container receiver;
cooling said container from approximately 80° F to approximately
40° F in less than one minute; and
removing said container from said container receiver.

30 50. The method of claim 49, wherein distributing at least one liquid cooler further comprises giving away said liquid cooler.

51. The method of claim 49, wherein distributing at least one liquid cooler further comprises selling said liquid cooler during a sales promotion.

5 52. The method of claim 49, wherein incorporating said liquid cooler into a device further comprises incorporating said liquid cooler into a refrigerator-freezer.

10 53. The method of claim 49, wherein incorporating said liquid cooler into a device further comprises placing said liquid cooler into a dormitory refrigerator-freezer.

15 54. The method of claim 49, wherein incorporating said liquid cooler into a device further comprises incorporating said liquid cooler into a pushcart.

55. The method of claim 49, wherein incorporating said liquid cooler into a device further comprises incorporating said liquid cooler into a vending tray for use at sporting events.